PSD APPLICABILITY FORM

This form is an aid to help determine if a proposed project will be required to undergo a PSD applicability review by the State of Washington Air Quality Program. This form should accompany the Notice of Construction application that is submitted to the Local Air Authority. For locations in eastern Washington where the Department of Ecology is the delegated local air authority, submit this form to the appropriate Ecology Regional Office.

It is the responsibility of the applicant to ensure that all preconstruction permits are obtained before commencement of construction.

COMPANY INFORMATION

Company or owner name: _____

Mailing address: _____

_____

_____

Facility address: _____ _____

_____

_____

Contact: _____

Telephone: _____

Fax: _____

e-mail: _____

Facility industrial classification and SIC: _____

If you require this document in an alternate format, please call Tami Dahlgren at (360) 407-6830 (voice), or 711 or 1-800-833-6388 (TTY only).

PROCESS INFORMATION AND EMISSIONS CALCULATIONS

This section is intended to furnish a best estimate of annual emissions and sufficient information for agency technical staff to verify the applicant's conclusions in answering the questions in the next section. Please provide:

(1) A description of the process with a flow diagram indicating points of emissions to the air.

(2) Design and operating parameters for the process (i.e., hours of operation per year, maximum and normal production rates, fuel and raw material requirements).

(3) Estimates of the potential emissions for all air pollutants from each emissions point and a description of the method or basis used to make the emission estimates (in enough detail so that one can follow the logic and the calculation steps). Potential emissions are based on the maximum possible rate from each emission point taking into account air pollution control equipment.

For either a new or modified source, calculate the **Potential to Emit** of each regulated pollutant based on operation at maximum capacity (such as 8,760 hours/year) with emissions control equipment operating.

For a modified source, subtract the **Actual** emissions of the existing source from the **Potential to Emit** of the modified source to calculate the emissions increase (decrease). Actual emissions are the average of the last 24 months of operation, if that period is representative of normal operations.

Regulated Pollutant Under PSD	Potential To Emit Tons/Year	Actual Emissions Tons/Year	Emissions Increase (Decrease)	Significant PSD Rate Tons/Year
Carbon monoxide (CO)				100
Nitrogen oxides (NOx)				40
Sulfur dioxide (SO_2)				40
Particulate matter (PM)				25
Particulate matter (PM_{10})				15
Volatile organic compounds (VOCs)				40
Ozone depleting substances				100
Lead				0.6
Fluorides				3
Sulfuric acid mist				7
Hydrogen sulfide (H_2S)				10
Total reduced sulfur (including H_2S)				10
Reduced sulfur compounds (including H_2S)				10
Municipal waste combustor organics measured as dioxins and furans				$3.5x10^{-6}$ (= 3.2 grams/yr)
Municipal waste combustor metals				15
Municipal waste combustor acid gasses				40
Municipal waste landfill nonmethane organic compounds				50

QUESTION 1 (Is the major source threshold 100 or 250 tons per year?)

Does the existing, modified, or new source fall within one of the following 28 source categories?

1. Fossil fuel-fired steam electric plants of more than 250 million Btu/hr heat input
2. Coal cleaning plants with thermal dryers
3. Kraft pulp mills
4. Portland cement plants
5. Primary zinc smelters
6. Iron and steel mill plants
7. Primary aluminum ore reduction plants
8. Primary copper smelters
9. Municipal incinerators capable of charging more than 250 tons of refuse per day
10. Hydrofluoric acid plants
11. Sulfuric acid plants
12. Nitric acid plants
13. Petroleum refineries
14. Lime plants
15. Phosphate rock processing plants
16. Coke oven batteries
17. Sulfur recovery plants
18. Carbon black plants (furnace process)
19. Primary lead smelters
20. Fuel conversion plants
21. Sintering plants
22. Secondary metal production plants
23. Chemical process plants
24. Fossil fuel boilers (or combinations) totaling more than 250 million Btu/hr heat input
25. Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels
26. Taconite ore processing plants
27. Glass fiber processing plants
28. Charcoal production plants

☐ YES Please indicate one source category number _____, then GO TO QUESTION 2.

☐ NO GO TO QUESTION 3.

QUESTION 2 (Are you a 100 ton major source?)

Does the potential to emit of any one regulated pollutant (including fugitive emissions) from the existing, modified, or new source exceed 100 tons per year?

☐ YES GO TO QUESTION 6.

☐ NO PSD IS NOT REQUIRED. DO NOT ANSWER ANY MORE QUESTIONS.
SUBMIT THIS FORM WITH THE NOTICE OF CONSTRUCTION APPLICATION.

QUESTION 3 (Are you a 250 ton major source that is required to include fugitive emissions?)

Does the existing, modified, or new source fall within one of the following source categories?

1. Municipal Incinerators (≥ 50 tons/day)
2. Asphalt concrete plants
3. Storage vessels for petroleum liquids, ≥ 40,000 gallons, construction after 06/11/73 and prior to 05/19/78.
4. Storage vessels for petroleum liquids, ≥ 40,000 gallons, construction after 05/18/78
5. Sewage treatment plants with sludge incinerators
6. Phosphate fertilizer industry: Plants manufacturing wet-process phosphoric acid, superphosphoric acid, diammonium phosphate, triple superphosphate, and granular triple superphosphate storage facilities.
7. Glass melting furnace ≥ 4,555 kilograms glass/day, (except all electric melters)
8. Grain elevators
9. Stationary gas turbines ≥ 10.7 gigajoules/hour heat input
10. Lead acid battery manufacturing plants
11. Automobile and light-duty truck assembly plant surface coating operations

☐ YES Please indicate one source category number _____, then GO TO QUESTION 4.

☐ NO GO TO QUESTION 5.

QUESTION 4 (Are you a 250 ton major source including fugitive emissions?)

Does the potential to emit of any one regulated pollutant (including fugitive emissions) from the existing, modified, or new source exceed 250 tons/year?

☐ YES GO TO QUESTION 6.

☐ NO PSD IS NOT REQUIRED. DO NOT ANSWER ANY MORE QUESTIONS. SUBMIT THIS FORM WITH THE NOTICE OF CONSTRUCTION APPLICATION.

QUESTION 5 (Are you a 250 ton major source not including fugitive emissions?)

Does the potential to emit of any one regulated pollutant (not including fugitive emissions) from the existing, modified, or new source exceed 250 tons per year?

☐ YES GO TO QUESTION 6.

☐ NO PSD IS NOT REQUIRED. DO NOT ANSWER ANY MORE QUESTIONS. SUBMIT THIS FORM WITH THE NOTICE OF CONSTRUCTION APPLICATION.

QUESTION 6 (Are you close to a Class I Area?)

Is the project a major stationary source or a modification to a major stationary source located within 10 kilometers (6.2 miles) of the boundary of a Class I area? Class I areas in Washington State are Mount Rainier National Park, North Cascade National Park, Olympic National Park, Alpine Lakes Wilderness Area, Glacier Peak Wilderness Area, Goat Rocks Wilderness Area, Mount Adams Wilderness Area, Pasayten Wilderness Area, and the Spokane Indian Reservation.

☐ YES PSD REVIEW IS REQUIRED IF THE MODELED IMPACT OF ANY REGULATED POLLUTANT ON THE CLASS I AREA IS EQUAL TO OR GREATER THAN 1 $\mu g/m^3$, (24-hour average).

☐ NO CONTINUE

QUESTION 7 (Are you a new source or modified source?)

Is the proposed project a

☐ New source? GO TO QUESTION 8.

☐ Modification, expansion, or addition to an existing source? GO TO QUESTION 9.

QUESTION 8 (For new sources: What are the PSD applicable pollutants?)

For which regulated pollutants does the potential to emit of the new source exceed their PSD significant rate?

PSD REVIEW IS PROBABLY REQUIRED FOR THESE POLLUTANTS.
YOU MUST MEET WITH THE DEPARTMENT OF ECOLOGY TO DISCUSS PSD APPLICABILITY.

QUESTION 9 (For modified sources: What are the PSD applicable pollutants?)

For which regulated pollutants does the emissions increase from the modified source exceed their PSD significant rate?

PSD REVIEW IS PROBABLY REQUIRED FOR THESE POLLUTANTS.
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